
STOCK LIST

SMI-PRO-BROC-SL01. Revision 1. March 2017.

Our stock selection includes:

C360	SAE 841	C863
C464		C932
C903		C954
C905		C955
C907		C959

Continuous Casting to: 16"+ maximum diameter

(Tube & Solid Round Bar)

4" x 15" maximum rectangle dimension

(Rectangle Bar & Profiles)

Other alloys and custom sizes available upon request.

This information in this booklet is provided for reference only.

Sizes, weights, and content remain subject to change at any time.



PLANT 1: 1668 Frost Rd; Streetsboro, OH 44241 USA

PLANT 2: 7071 Peck Rd; Ravenna, OH 44266 USA

TOLL-FREE (US & Canada): +1-888-276-6937

MAIN (US & International): +1-330-626-3666

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STOCK LIST

CDA 93200 Tube & Solid Round Bar Stock Allowance

<i>Finished Outside Diameter</i>	<i>ID</i>	<i>OD</i>
Up to 1.999" inclusive.....	-0.0190" to -0.0640"	+0.0290" to +0.0390"
2" to 3.999" inclusive.....	-0.0190" to -0.0640"	+0.0340" to +0.0440"
4" to 5" inclusive.....	-0.0470" to -0.1090"	+0.0550" to +0.0710"
5" to 9" inclusive.....	-0.0620" to -0.1580"	+0.0780" to +0.1100"
9" to 12" inclusive.....	-0.0780" to -0.1820"	+0.0940" to +0.1340"
12" to 16" inclusive.....	-0.1020" to -0.2140"	+0.1180" to +0.1660"

CDA 93200 Rectangle Bar Stock Allowance

<i>Finished Width</i>	<i>Thickness</i>	<i>Width</i>
Up to 3.999" inclusive.....	+0.047" to +0.079"	+0.047" to +0.079"
Over 4" to 5" inclusive.....	+0.078" to +0.110"	+0.078" to +0.110"
Over 5.001".....	+0.109" to +0.141"	+0.109" to +0.141"

CDA 95400, C95500, C95900 Tube & Solid Round Bar Stock Allowance

<i>Finished Outside Diameter</i>	<i>ID</i>	<i>OD</i>
Up to 3" inclusive.....	-0.0505" to -0.0955"	+0.0525" to +0.0725"
3" to 4 ½" inclusive.....	-0.0900" to -0.1450"	+0.0790" to +0.1090"
4 ½" to 5 ½" inclusive.....	-0.1000" to -0.1650"	+0.1050" to +0.1450"
5 ½" to 9" inclusive.....	-0.1350" to -0.2100"	+0.1630" to +0.2130"

CDA 95400 Rectangle Bar Stock Allowance

<i>Finished Width</i>	<i>Thickness</i>	<i>Width</i>
Up to 3" inclusive.....	+0.067" to +0.107"	+0.043" to +0.083"
Over 3" to 5 ½" inclusive.....	+0.067" to +0.107"	+0.043" to +0.083"
Over 5 ½" to 12" inclusive.....	+0.087" to +0.127"	+0.063" to +0.113"
Over 12".....	+0.163" to +0.263"	+0.125" to +0.225"

CDA 95900 Rectangle Bar Stock Allowance

<i>Finished Width</i>	<i>Thickness</i>	<i>Width</i>
Up to 5 ½" inclusive.....	+0.100" to +0.130"	+0.113" to +0.163
Over 5 ½" to 9 ½" inclusive.....	+0.100" to +0.130"	+0.113" to +0.163
Over 9 ½".....	+0.100" to +0.130"	+0.113" to +0.163



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STOCK LIST

C-360 Solid Round*

Diameter (inches)	lbs per 144" length
1/4"	2
5/16"	3
3/8"	5
7/16"	7
1/2"	9
9/16"	11
5/8"	14
3/4"	20
7/8"	27
1"	35
1-1/8"	44
1-1/4"	54
1-3/8"	66
1-1/2"	78
1-5/8"	92
1-3/4"	106
2"	139
2-1/4"	176
2-3/8"	196
2-1/2"	217
2-3/4"	262
3"	312
3-1/2"	425
3-3/4"	488
4"	555
4-1/2"	702
5"	868
5-1/2"	1,050
6"	1,249
6-1/2"	1,486
7"	1,732
8"	2,248
9"	2,789
10"	3,510

C-464 Solid Round*

Diameter (inches)	lbs per 144" length
1/4"	2
5/16"	3
3/8"	5
7/16"	7
1/2"	9
5/16"	11
5/8"	13
3/4"	19
7/8"	26
1"	34
1-1/8"	43
1-1/4"	54
1-3/8"	65
1-1/2"	77
1-5/8"	91
1-3/4"	105
2"	137
2-1/4"	174
2-3/8"	196
2-1/2"	215
2-3/4"	260
3"	309
3-1/4"	363
3-1/2"	421
3-3/4"	517
4"	550
4-1/2"	696
5"	859
6"	1,237
7"	1,764
8"	2,270
10"	3,525

* Sizes over 3-1/2" diameter are cast and turned to ASTM B505-chemistry only. 72" stock length.



PLANT 2: 7071 Peck Rd; Ravenna, OH 44266 USA
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STOCK LIST

C-863 Rectangle

Thick x Width (inches)	lbs per 144" length
1/2" x 2"	60
1/2" x 4"	112
1/2" x 5"	132
1/2" x 6"	150
1/2" x 8"	220
3/4" x 3"	119
3/4" x 4"	149
3/4" x 5"	188
3/4" x 6"	221
3/4" x 10"	376
1" x 2"	93
1" x 4"	200

Thick x Width (inches)	lbs per 144" length
1" x 5	240
1" x 6"	275
1" x 8"	375
1" x 12"	582
1-1/2" x 2"	143
1-1/2" x 3"	216
1-1/2" x 4"	275
1-1/2" x 5"	350
1-1/2" x 6"	418
1-1/2" x 8"	548
2" x 6"	556
2" x 10"	916
2" x 12"	1,095

C-863 Solid Round

Diameter (inches)	lbs per 144" length
1"	38
1-1/2"	84
2"	140
2-1/2"	218
3"	304
3-1/2"	413
4"	549
4-1/2"	685
5"	841
5-1/2"	1,008
6"	1,236
7"	1,626
8"	2,134
9"	2,680
10"	3,297
11"	3,982
12"	4,726
14"	6,500
16"	8,555

C-863 Tube

ID x OD (inches)	lbs per 144" length
1" x 2"	115
1" x 2-1/2"	193
1" x 3"	285
1" x 4"	512
1-1/2" x 2"	84
1-1/2" x 3"	249
1-3/4" x 2-1/4"	82
2" x 2-1/2"	109
2" x 3"	197
2" x 3-1/2"	297
2" x 4"	430
2" x 5"	730
2" x 6"	1,120
2-1/2" x 3-1/2"	244
2-1/2" x 4"	356
3" x 4"	278
3" x 5"	574
3" x 6"	937
3-1/2" x 4-1/4"	281
3-1/2" x 4-1/2"	367

ID x OD (inches)	lbs per 144" length
3-1/2" x 5-1/2"	645
4" x 5"	411
4" x 6"	725
4" x 7"	1,197
4" x 8"	1,639
5" x 6"	437
5" x 7"	914
5" x 8"	1,362
5" x 9"	2,001
6" x 7"	520
6" x 8"	1,142
6" x 9"	1,681
6" x 10"	2,305
7" x 8"	601
7" x 9"	1,209
7" x 10"	1,905
7-1/2" x 10-1/2"	2,017
8" x 9"	817
8" x 10"	1,441
8" x 12"	2,881

ID x OD (inches)	lbs per 144" length
8-1/2" x 10"	1,185
8-1/2" x 12"	2,625
9" x 10-1/2"	1,215
9" x 11"	1,601
10" x 12"	1,761
10" x 14"	3,457
11" x 13"	1,921
11" x 14"	2,802
11" x 15"	3,745
12" x 14"	2,082
12" x 15"	3,026
13" x 15"	2,242
13" x 16"	3,250
14" x 16"	2,350



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C-903 Solid Round

Diameter (inches)	lbs per 144" length
1"	39
2"	151
2-1/2"	232
3"	332
3-1/2"	455
4"	615
4-1/2"	762
5"	938
5-1/2"	1,140
6"	1,356
7"	1,830
8"	2,380
9"	3,000
10"	3,694
12"	5,297

C-905 Solid Round

Diameter (inches)	lbs per 144" length
2"	152
2-1/2"	246
3"	349
3-1/2"	469
4"	606
4-1/2"	764
5"	931
5-1/2"	1,130
6"	1,384
7"	1,822
7-1/2"	2,134
8"	2,355
9"	2,972
10"	3,700
12"	5,250

C-907 Solid Round

Diameter (inches)	lbs per 144" length
1"	39
2"	151
2-1/2"	235
3"	332
3-1/2"	457
4"	615
4-1/2"	770
5"	926
5-1/2"	1,157
6"	1,360
7"	1,804
7-1/2"	2,134
8"	2,371
9"	2,964
10"	3,700
12"	5,293



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STOCK LIST

C-932 Rectangle

Thick x Width (inches)	lbs per 144" length	Thick x Width (inches)	lbs per 144" length	Thick x Width (inches)	lbs per 144" length
1/4" x 1"	22	3/4" x 4"	164	2-1/2" x 2-1/2"	328
1/4" x 2"	40	3/4" x 5"	214	2-1/2" x 4"	520
1/4" x 3"	57	3/4" x 6"	252	2-1/2" x 8"	1,010
1/4" x 4"	68	3/4" x 8"	332	2-1/2" x 12"	1,462
1/4" x 5"	92	3/4" x 12"	479	3" x 3"	448
1/4" x 6"	109	3/4" x 14"	589	3" x 3-1/2"	536
1/4" x 8"	141	1" x 1"	61	3" x 6"	924
1/4" x 10"	179	1" x 2"	103	3" x 8"	1,178
1/4" x 12"	219	1" x 3"	154	3" x 12"	1,745
3/8" x 1"	29	1" x 4"	212	4" x 4"	782
3/8" x 2"	53	1" x 5"	275	4" x 12"	2,324
3/8" x 3"	76	1" x 6"	329	5" x 5"	1,210
3/8" x 4"	92	1" x 8"	430	6" x 6"	1,780
3/8" x 5"	122	1" x 9"	489	8" x 8"	3,061
3/8" x 6"	146	1" x 10"	528		
1/2" x 1"	33	1" x 12"	619		
1/2" x 2"	63	1" x 14"	757		
1/2" x 3"	93	1" x 15"	811		
1/2" x 4"	116	1-1/4" x 2"	144		
1/2" x 5"	153	1-1/4" x 3"	208		
1/2" x 6"	178	1-1/4" x 4"	260		
1/2" x 8"	240	1-1/4" x 5"	336		
1/2" x 9"	272	1-1/4" x 6"	400		
1/2" x 10"	294	1-1/4" x 8"	523		
1/2" x 12"	338	1-1/4" x 12"	778		
1/2" x 14"	421	1-1/2" x 2"	170		
1/2" x 15"	441	1-1/2" x 3"	246		
5/8" x 1"	44	1-1/2" x 4"	308		
5/6" x 2"	79	1-1/2" x 6"	472		
5/8" x 3"	114	1-1/2" x 8"	622		
5/8" x 4"	140	1-1/2" x 12"	901		
5/8" x 5"	183	1-3/4" x 4"	356		
5/8" x 6"	218	1-3/4" x 8"	718		
5/8" x 8"	282	1-3/4" x 12"	1,077		
5/8" x 10"	358	2" x 2"	223		
5/8" x 12"	412	2" x 4"	404		
3/4" x 1"	47	2" x 5"	519		
3/4" x 2"	89	2" x 8"	812		
3/4" x 3"	131	2" x 12"	1,180		

STOCK LIST

C-932 Solid Round

Diameter (inches)	lbs per 105" length
1/2"	9
5/8"	13
3/4"	17
7/8"	23
1"	29
1-1/8"	32
1-1/4"	45
1-3/8"	55
1-1/2"	65
1-5/8"	75
1-3/4"	87
2"	113
2-1/4"	142
2-1/2"	175
2-3/4"	211
3"	251
3-1/4"	294
3-1/2"	340
3-3/4"	389
4"	442
4-1/2"	565
5"	627
5-1/2"	842
6"	999
6-1/2"	1,168
7"	1,353
7-1/2"	1,552
8"	1,756
9"	2,215
10"	2,724
11"	3,302
12"	3,970
13"	4,627
14"	5,394
15"	6,175
16"	7,012

C-932 Tube

ID x OD (inches)	lbs per 105" length
1/2" x 1"	24
1/2" x 1-1/4"	40
1/2" x 1-1/2"	59
1/2" x 2"	107
5/8" x 1"	20
3/4" x 1"	16
3/4" x 1-1/4"	32
3/4" x 1-1/2"	51
3/4" x 1-3/4"	73
3/4" x 2"	99
3/4" x 2-1/4"	129
3/4" x 2-1/2"	162
3/4" x 2-3/4"	196
3/4" x 3-1/2"	328
7/8" x 1-3/8"	36
7/8" x 1-1/2"	46
1" x 1-1/4"	20
1" x 1-3/8"	30
1" x 1-1/2"	40
1" x 1-3/4"	62
1" x 2"	88
1" x 2-1/4"	118
1" x 2-1/2"	150
1" x 2-3/4"	187
1" x 3"	226
1" x 3-1/4"	269
1" x 3-1/2"	316
1" x 4"	426
1-1/8" x 1-1/2"	33
1-1/6" x 1-5/8"	46
1-1/8" x 2"	81
1-1/4" x 1-1/2"	25
1-1/4" x 1-5/8"	37
1-1/4" x 1-3/4"	48
1-1/4" x 1-7/8"	62
1-1/4" x 2"	74
1-1/4" x 2-1/2"	136
1-1/4" x 3"	212
1-1/4" x 3-1/4"	255
1-1/4" x 3-1/2"	301
1-1/4" x 4"	414
1-3/8" x 1-5/8"	28
1-3/8" x 1-3/4"	39
1-3/8" x 2"	65
1-1/2" x 1-3/4"	29
1-1/2" x 1-7/8"	43
1-1/2" x 2"	55
1-1/2" x 2-1/4"	85
1-1/2" x 2-1/2"	118
1-1/2" x 2-3/4"	154
1-1/2" x 3"	194
1-1/2" x 3-1/4"	237
1-1/2" x 3-1/2"	283
1-1/2" x 4"	397
1-1/2" x 4-1/2"	514
1-5/8" x 2"	45
1-3/4" x 2"	34
1-3/4" x 2-1/4"	63
1-3/4" x 2-3/8"	82
1-3/4" x 2-1/2"	96
1-3/4" x 2-3/4"	132
1-3/4" x 3"	172
1-3/4" x 3-1/4"	215
1-3/4" x 3-1/2"	261
1-3/4" x 3-3/4"	311
1-3/4" x 4"	376
1-7/8" x 2-1/4"	51
1-7/8" x 2-3/8"	70
2" x 2-3/8"	56
2" x 2-1/2"	75
2" x 2-5/8"	92
2" x 2-3/4"	111
2" x 3"	152
2" x 3-1/4"	192
2" x 3-1/2"	240
2" x 3-3/4"	288
2" x 4"	353
2" x 4-1/2"	463
2" x 5"	591

ID x OD (inches)	lbs per 105" length
1-1/4" x 1-7/8"	62
1-1/4" x 2"	74
1-1/4" x 2-1/2"	136
1-1/4" x 3"	212
1-1/4" x 3-1/4"	255
1-1/4" x 3-1/2"	301
1-1/4" x 4"	414
1-3/8" x 1-5/8"	28
1-3/8" x 1-3/4"	39
1-3/8" x 2"	65
1-1/2" x 1-3/4"	29
1-1/2" x 1-7/8"	43
1-1/2" x 2"	55
1-1/2" x 2-1/4"	85
1-1/2" x 2-1/2"	118
1-1/2" x 2-3/4"	154
1-1/2" x 3"	194
1-1/2" x 3-1/4"	237
1-1/2" x 3-1/2"	283
1-1/2" x 4"	397
1-1/2" x 4-1/2"	514
1-5/8" x 2"	45
1-3/4" x 2"	34
1-3/4" x 2-1/4"	63
1-3/4" x 2-3/8"	82
1-3/4" x 2-1/2"	96
1-3/4" x 2-3/4"	132
1-3/4" x 3"	172
1-3/4" x 3-1/4"	215
1-3/4" x 3-1/2"	261
1-3/4" x 3-3/4"	311
1-3/4" x 4"	376
1-7/8" x 2-1/4"	51
1-7/8" x 2-3/8"	70
2" x 2-3/8"	56
2" x 2-1/2"	75
2" x 2-5/8"	92
2" x 2-3/4"	111
2" x 3"	152
2" x 3-1/4"	192
2" x 3-1/2"	240
2" x 3-3/4"	288
2" x 4"	353
2" x 4-1/2"	463
2" x 5"	591

ID x OD (inches)	lbs per 105" length
2" x 5-1/2"	747
2" x 6"	904
2-1/4" x 2-3/4"	81
2-1/4" x 3"	123
2-1/4" x 3-1/4"	163
2-1/4" x 3-1/2"	211
2-1/4" x 3-3/4"	262
2-1/2" x 3"	92
2-1/2" x 3-1/4"	135
2-1/2" x 3-1/2"	182
2-1/2" x 3-3/4"	227
2-1/2" x 4"	291
2-1/2" x 4-1/2"	410
2-1/2" x 5"	538
2-1/2" x 5-1/2"	692
2-1/2" x 6"	838



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C-932 Tube

ID x OD (inches)	lbs per 105" length	ID x OD (inches)	lbs per 105" length	ID x OD (inches)	lbs per 105" length
2-3/4" x 3-1/4"	96	4-1/4" x 5-1/2"	387	8" x 9"	567
2-3/4" x 3-1/2"	146	4-1/2" x 5"	165	8" x 9-1/2"	829
2-3/4" x 3-3/4"	194	4-1/2" x 5-1/2"	331	8" x 10"	1,094
2-3/4" x 4"	259	4-1/2" x 6"	487	8" x 11"	1,664
2-3/4" x 4-1/2"	381	4-1/2" x 6-1/2"	657	8" x 12"	2,294
2-3/4" x 4-3/4"	431	4-1/2" x 7"	842	8" x 13"	3,026
3" x 3-1/2"	103	4-3/4" x 5-1/4"	196	8-1/2" x 9-1/2"	627
3" x 3-3/4"	157	4-3/4" x 5-3/4"	346	8-1/2" x 10"	873
3" x 4"	222	5" x 5-1/2"	205	8-1/2" x 10-1/2"	1,157
3" x 4-1/4"	281	5" x 5-3/4"	284	9" x 10"	661
3" x 4-1/2"	342	5" x 6"	363	9" x 10-1/2"	928
3" x 4-3/4"	395	5" x 6-1/2"	535	9" x 11"	1,214
3" x 5"	462	5" x 7"	720	9" x 11-1/2"	1,518
3" x 5-1/2"	621	5" x 7-1/2"	915	9" x 12"	1,836
3" x 6"	778	5" x 8"	1,125	9" x 13"	2,571
3" x 6-1/2"	947	5" x 9"	1,585	9-1/2" x 10-1/2"	699
3" x 7"	1,135	5" x 10"	2,158	9-1/2" x 11"	971
3" x 8"	1,544	5" x 10-1/2"	2,383	9-1/2" x 11-1/2"	1,276
3-1/4" x 4"	181	5-1/2" x 6-1/2"	395	10" x 11"	742
3-1/4" x 4-1/4"	238	5-1/2" x 7"	579	10" x 11-1/2"	1,032
3-1/4" x 4-1/2"	290	5-1/2" x 7-1/2"	778	10" x 12"	1,333
3-1/4" x 5"	420	5-1/2" x 8"	990	10" x 13"	2,052
3-1/2" x 4"	133	5-3/4" x 6-3/4"	412	10" x 14"	2,783
3-1/2" x 4-1/4"	194	6" x 6-3/4"	334	10" x 15"	3,585
3-1/2" x 4-1/2"	255	6" x 7"	427	10" x 16"	4,419
3-1/2" x 4-3/4"	310	6" x 7-1/2"	625	10-1/2" x 12-1/2"	1,511
3-1/2" x 5"	376	6" x 8"	837	11" x 12"	800
3-1/2" x 5-1/2"	539	6" x 8-1/2"	1,065	11" x 12-1/2"	1,167
3-1/2" x 6-1/2"	696	6" x 9"	1,300	11" x 13"	1,500
3-1/2" x 6-1/2"	865	6" x 10"	1,834	11" x 14"	2,473
3-3/4" x 4-1/2"	204	6" x 11"	2,404	11-1/2" x 13"	1,203
3-3/4" x 4-3/4"	262	6" x 12"	3,030	11-1/2" x 13-1/2"	1,556
3-3/4" x 5-1/2"	490	6-1/2" x 7-1/2"	460	11-1/2" x 14"	2,322
4" x 4-1/2"	148	6-1/2" x 8"	674	12" x 13-1/2"	1,257
4" x 4-3/4"	211	6-1/2" x 8-1/2"	900	12" x 14"	1,627
4" x 5"	277	7" x 8"	493	12" x 15"	2,409
4" x 5-1/4"	367	7" x 8-1/2"	721	12" x 16"	3,272
4" x 5-1/2"	441	7" x 9"	954	12-1/2" x 14"	1,296
4" x 6"	600	7" x 9-1/2"	1,224	13" x 14-1/2"	1,392
4" x 6-1/2"	767	7" x 10"	1,487	13" x 15"	1,744
4" x 7"	953	7" x 11"	2,067	13" x 16"	2,702
4" x 7-1/2"	1,153	7" x 12"	2,693	13-1/2" x 15-1/2"	1,798
4" x 8"	1,363	7" x 13"	3,399	14" x 15-1/2"	1,455
4" x 9"	1,821	7-1/2" x 8-1/2"	530	14" x 16"	1,901
4-1/4" x 4-3/4"	157	7-1/2" x 9"	763	14" x 17"	2,816
4-1/4" x 5"	224	7-1/2" x 9-1/2"	1,033	15" x 16-1/4"	1,455
4-1/4" x 5-1/4"	313	7-1/2" x 10"	1,299	15" x 17"	2,044



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STOCK LIST

C-954 Rectangle

Thick x Width (inches)	lbs per 144" length
1/4" x 1"	15
1/4" x 1-1/4"	18
1/4" x 1-1/2"	21
1/4" x 2"	28
1/4" x 2-1/2"	34
1/4" x 3"	41
1/4" x 3-1/2"	46
1/4" x 4"	55
1/4" x 5"	66
1/4" x 6"	87
1/4" x 12"	162
3/8" x 1"	20
3/8" x 1-1/2"	29
3/8" x 3"	38
3/8" x 2-1/2"	47
3/8" x 3"	57
3/8" x 3-1/2"	64
3/8" x 4"	74
3/8" x 5"	93
3/8" x 6"	115
3/8" x 8"	151
3/8" x 12"	221
1/2" x 1/2"	14
1/2" x 1"	25
1/2" x 1-1/4"	32
1/2" x 1-1/2"	37
1/2" x 2"	48
1/2" x 2-1/2"	60
1/2" x 3"	72
1/2" x 3-1/2"	83
1/2" x 4"	93
1/2" x 5"	117
1/2" x 6"	145
1/2" x 8"	189
1/2" x 10"	232
1/2" x 12"	280
5/8" x 1"	31
5/8" x 1-1/2"	45
5/8" x 2"	59
5/8" x 2-1/2"	72
5/8" x 3"	86
5/8" x 4"	115
5/8" x 5"	142
5/8" x 6"	174
5/8" x 8"	230
3/4" x 3/4"	27
3/4" x 1"	36
3/4" x 1-1/2"	53

Thick x Width (inches)	lbs per 144" length
3/4" x 2"	69
3/4" x 2-1/2"	85
3/4" x 3"	102
3/4" x 3-1/2"	119
3/4" x 4"	134
3/4" x 5"	165
3/4" x 6"	204
3/4" x 8"	269
3/4" x 10"	346
3/4" x 12"	391
1" x 1"	46
1" x 1-1/4"	57
1" x 1-1/2"	67
1" x 1-3/4"	78
1" x 2"	89
1" x 2-1/2"	110
1" x 3"	131
1" x 3-1/2"	153
1" x 4"	174
1" x 5"	217
1" x 6"	265
1" x 7"	303
1" x 8"	347
1" x 10"	432
1" x 12"	507
1" x 15"	713
1-1/4" x 1-1/4"	69
1-1/4" x 1-1/2"	83
1-1/4" x 1-3/4"	97
1-1/4" x 2"	109
1-1/4" x 2-1/2"	134
1-1/4" x 3"	162
1-1/4" x 3-1/2"	188
1-1/4" x 4"	212
1-1/4" x 5"	262
1-1/4" x 6"	303
1-1/4" x 8"	425
1-1/4" x 10"	533
1-1/2" x 1-1/2"	99
1-1/2" x 1-3/4"	114
1-1/2" x 2"	129
1-1/2" x 2-1/2"	160
1-1/2" x 3"	192
1-1/2" x 3-1/2"	223
1-1/2" x 4"	253
1-1/2" x 5"	315
1-1/2" x 6"	376
1-1/2" x 8"	508

Thick x Width (inches)	lbs per 144" length
1-1/2" x 12"	752
1-1/2" x 15"	1,006
1-3/4" x 1-3/4"	131
1-3/4" x 2"	151
1-3/4" x 2-1/2"	187
1-3/4" x 3"	220
1-3/4" x 4"	293
1-3/4" x 5"	358
1-3/4" x 6"	443
1-3/4" x 8"	585
1-3/4" x 10"	727
2" x 2"	170
2" x 2-1/2"	211
2" x 3"	252
2" x 3-1/2"	288
2" x 4"	333
2" x 6"	503
2" x 8"	664
2" x 12"	984
2" x 15"	1,301
2-1/2" x 2-1/2"	259
2-1/2" x 3"	314
2-1/2" x 4"	414
2-1/2" x 5"	515
2-1/2" x 6"	624
2-1/2" x 12"	1,233
3" x 3"	373
3" x 4"	493
3" x 5"	617
3" x 6"	741
3" x 12"	1,447
3-1/2" x 5"	726
4" x 4"	653
4" x 5"	819
4" x 6"	1,001
4" x 7"	1,339
4-1/2" x 6"	1,102
5" x 5"	1,023
6" x 6"	1,463



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STOCK LIST

C-954 Solid Round

Diameter (inches)	lbs per 144" length
1/2"	10
3/4"	21
1"	35
1-1/4"	54
1-1/2"	76
1-3/4"	102
2"	132
2-1/4"	166
2-1/2"	207
2-3/4"	242
3"	294
3-1/4"	344
3-1/2"	401
3-3/4"	456
4"	514
4-1/4"	586
4-1/2"	658
5"	803
5-1/2"	970
6"	1,147
6-1/2"	1,330
7"	1,538
8"	2,058
9"	2,589
10"	3,205
11"	3,861
12"	4,577
13"	5,319
14"	6,135
15"	7,041
16"	8,050



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STOCK LIST

C-954 Tube

ID x OD (inches)	lbs per 144" length	ID x OD (inches)	lbs per 144" length	ID x OD (inches)	lbs per 144" length
3/4" x 1-1/4"	40	2-1/2" x 3-3/4"	290	6-1/2" x 7-1/2"	525
3/4" x 1-1/2"	63	2-1/2" x 4"	350	7" x 8"	561
3/4" x 1-3/4"	90	2-1/2" x 4-1/2"	482	7" x 8-1/2"	898
3/4" x 2"	117	2-1/2" x 5"	642	7" x 9"	1,170
1" x 1-1/2"	50	2-1/2" x 6"	995	7" x 10"	1,790
1" x 1-3/4"	77	2-3/4" x 3-1/4"	135	7" x 11"	2,444
1" x 2"	107	2-3/4" x 2-1/2"	188	7-1/2" x 9"	982
1" x 2-1/2"	141	2-3/4" x 3-3/4"	250	8" x 9"	776
1" x 2-1/2"	180	3" x 3-1/2"	146	8" x 9-1/4"	919
1" x 3"	266	3" x 3-3/4"	205	8" x 9-1/2"	1,065
1" x 3-1/2"	376	3" x 4"	270	8" x 10"	1,370
1" x 4"	497	3" x 4-1/4"	338	8" x 11"	2,024
1-1/4" x 1-3/4"	60	3" x 4-1/2"	405	8" x 12"	2,739
1-1/4" x 2"	91	3" x 5"	563	8-1/2" x 10"	1,126
1-1/4" x 2-1/4"	125	3" x 5-1/2"	729	8-1/2" x 10-1/2"	1,446
1-1/4" x 2-1/2"	163	3" x 6"	938	9" x 10"	868
1-1/4" x 2-3/4"	200	3" x 7"	1,350	9" x 10-1/4"	1,025
1-1/4" x 3"	249	3-1/2" x 4"	167	9" x 10-1/2"	1,187
1-1/4" x 3-1/4"	363	3-1/2" x 4-1/4"	234	9" x 11"	1,522
1-1/2" x 2"	70	3-1/2" x 4-1/2"	306	9" x 12"	2,237
1-1/2" x 2-1/4"	105	3-1/2" x 5"	471	9" x 13"	3,012
1-1/2" x 2-1/2"	143	3-1/2" x 5-1/2"	634	9" x 14"	3,850
1-1/2" x 2-3/4"	185	3-1/2" x 6"	846	9-1/4" x 10-1/2"	1,052
1-1/2" x 3"	231	4" x 4-3/4"	284	9-3/4" x 11"	1,105
1-1/2" x 3-1/4"	289	4" x 5"	363	10" x 11"	959
1-1/2" x 3-1/2"	344	4" x 5-1/2"	529	10" x 11-1/2"	1,309
1-1/2" x 4-1/2"	584	4" x 6"	739	10" x 12"	1,674
1-3/4" x 2-1/4"	80	4" x 7"	1,144	10" x 13"	2,450
1-3/4" x 2-1/2"	118	4" x 8"	1,543	10" x 14"	3,286
1-3/4" x 2-3/4"	161	4" x 9"	2,165	10" x 15"	4,185
1-3/4" x 3"	207	4-1/2" x 5-1/4"	301	10-1/2" x 12"	1,370
1-3/4" x 3-1/2"	322	4-1/2" x 5-1/2"	402	11" x 12"	1,050
1-3/4" x 4"	427	4-1/2" x 6"	622	11" x 13"	1,826
2" x 2-1/2"	91	4-1/2" x 6-1/2"	783	11" x 14"	2,628
2" x 2-3/4"	132	5" x 6"	478	12" x 13-1/2"	1,552
2" x 3"	178	5" x 6-1/2"	676	12" x 14"	1,978
2" x 3-1/2"	292	5" x 7"	880	12" x 15"	3,834
2" x 4"	413	5" x 8"	1,352	12-1/2" x 14-1/2"	2,025
2" x 4-1/2"	542	5" x 9"	1,917	13" x 15"	2,085
2" x 5"	708	5" x 10"	2,510	13" x 16"	3,089
2" x 6"	1,082	5-1/2" x 6-1/2"	516	14" x 16"	2,282
2-1/4" x 2-3/4"	99	5-1/2" x 7-1/2"	980		
2-1/4" x 3"	147	6" x 7"	561		
2-3/4" x 3-1/4"	210	6" x 8"	1,123		
2-1/4" x 3-1/2"	269	6" x 9"	1,558		
2-1/2" x 3"	110	6" x 10"	2,173		
2-1/2" x 3-1/4"	171	6" x 11"	2,828		
2-1/2" x 3-1/2"	232	6" x 12"	3,545		



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STOCK LIST

C-955 Solid Round

Diameter (inches)	lbs per 144" length
1"	35
1-1/2"	76
2"	129
2-1/2"	212
3"	301
3-1/2"	405
4"	524
4-1/2"	660
5"	810
5-1/2"	976
6"	1,144
6-1/2"	1,330
7"	1,595
8"	2,070
10"	3,232

C-955 Tube

ID x OD (inches)	lbs per 144" length
1" x 2"	108
1-1/2" x 2"	74
1-1/2" x 2-1/2"	151
1-1/2" x 3"	274
2" x 2-1/2"	97
2" x 3"	188
2" x 5"	698
2-1/2" x 4"	362
3" x 4-1/2"	411
3" x 5"	571
4" x 5-1/2"	535
4" x 6"	745
4-1/2" x 6-1/2"	812
5" x 7"	889
7" x 8-1/2"	910
7" x 10"	1,340
7-1/2" x 9"	930
8" x 11"	2,026
8-1/2" x 10"	1,110
10" x 12"	1,696



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STOCK LIST

C-959 Rectangle

Thick x Width (inches)	lbs per 144" length
1/4" x 2"	41
1/4" x 3"	60
1/4" x 4"	78
1/4" x 6"	115
1/4" x 8"	151
3/8" x 2"	52
3/8" x 3"	78
3/8" x 4"	98
3/8" x 6"	143
3/8" x 8"	189
3/8" x 10"	235
1/2" x 2"	62
1/2" x 3"	87
1/2" x 4"	117
1/2" x 6"	172
1/2" x 8"	227
1/2" x 10"	282
1/2" x 12"	337
3/4" x 2"	83
3/4" x 4"	156
3/4" x 6"	230
3/4" x 8"	303
3/4" x 10"	376
3/4" x 12"	450
1" x 2"	83
1" x 4"	175
1" x 6"	260
1" x 8"	338
1" x 10"	470
1" x 12"	562
1-1/2" x 2"	138
1-1/2" x 4"	245
2" x 2"	182
2" x 4"	351
2-1/2" x 2-1/2"	276
2-1/2" x 4"	419
3" x 3"	390

C-959 Solid Round

Diameter (inches)	lbs per 144" length
1"	34
2"	124
3"	277
4"	494
5"	773
6"	1,134
7"	1,532
8"	2,020



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STOCK LIST

SAE-841

Diameter (inches)	ID x OD (inches)	ID x OD (inches)
3/8"	1/2" x 1"	1-3/4" x 4-1/2"
1/2"	1/2" x 1-1/4"	2" x 2-3/8"
5/8"	1/2" x 1-1/2"	2" x 2-3/4"
3/4"	1/2" x 1-3/4"	2" x 3"
7/8"	1/2" x 2"	2" x 3-1/4"
1"	5/8" x 1-1/4"	2" x 4"
1-1/8"	5/8" x 1-1/2"	2" x 4-1/2"
1-1/4"	5/8" x 1-3/4"	2" x 5"
1-3/8"	5/8" x 2"	2" x 5-1/2"
1-1/2"	3/4" x 1-1/4"	2-1/4" x 3"
1-5/8"	3/4" x 1-1/2"	2-1/4" x 3-1/4"
1-3/4"	3/4" x 1-3/4"	2-1/4" x 3-1/2"
2"	3/4" x 2"	2-1/4" x 3-3/4"
2-1/4"	3/4" x 2-1/2"	2-1/4" x 4"
2-1/2"	1" x 1-3/4"	2-1/4" x 4-1/2"
2-3/4"	1" x 2"	2-3/8" x 3"
3"	1" x 2-1/4"	2-3/8" x 4"
1-1/4"	1" x 2-1/2"	2-3/8" x 4-1/2"
3-1/2"	1" x 3"	2-1/2" x 3-3/4"
4"	1" x 3-1/2"	2-1/2" x 3-1/2"
4-1/2"	1" x 4"	2-1/2" x 3-3/4"
5"	1-1/4" x 1-3/4"	2-1/2" x 4"
5-1/2"	1-1/4" x 2"	2-1/2" x 4-1/4"
6"	1-1/4" x 2-1/4"	2-1/2" x 4-1/2"
7"	1-1/4" x 2-1/2"	2-1/2" x 5"
8"	1-1/4" x 3"	2-3/4" x 3-3/4"
	1-1/4" x 3-1/2"	3" x 3/4"
	1-1/4" x 4"	3" x 4"
	1-3/8" x 2"	3" x 4-1/2"
	1-3/8" x 2-3/4"	3" x 5"
	1-1/2" x 2"	3" x 6"
	1-1/2" x 2-1/4"	3-1/4" x 4-1/4"
	1-1/2" x 2-1/2"	3-1/2" x 4-3/4"
	1-1/2" x 2-3/4"	3-1/2" x 5"
	1-1/2" x 3"	3-1/2" x 6"
	1-1/2" x 3-1/2"	3-3/4" x 5"
	1-1/2" x 4"	4" x 5-1/2"
	1-3/4" x 2-1/4"	4" x 6"
	1-3/4" x 2-1/2"	4" x 7"
	1-3/4" x 2-3/4"	4" x 8"
	1-3/4" x 3"	4-1/2" x 6"
	1-3/4" x 3-1/2"	5" x 7"
	1-3/4" x 4"	6" x 8"

STOCK LIST

CROSS INDEX			NOMINAL CHEMICAL COMPOSITION					MINIMUM REQUIREMENTS				MACHINABILITY
High Leaded Tin Bronze High Speeds / Low Speeds	CDA	SAE	Cu	Sn	Pb	Zn	Other	Tensile (PSI)	Yield (PSI)	Elongation %	BHN @ 500kg	Free Cutting Brass = 100
	C93800	67	78%	7%	15%	-	-	25,000	16,000	5	60	80
	C94100	-	75%	5%	20%	-	-	25,000	17,000	7	50	80
	C94300	-	70%	5%	25%	-	-	21,000	15,000	7	48	80

Leaded Tin Bronze Medium Speeds / Medium Loads	CDA	SAE	Cu	Sn	Pb	Zn	Other	Tensile (PSI)	Yield (PSI)	Elongation %	BHN @ 500kg	Free Cutting Brass = 100
	C83600	40	85%	5%	5%	5%	-	36,000	19,000	15	60	84
	C84400	-	81%	3%	7%	9%	-	30,000	15,000	16	55	90
	C93200	660	83%	7%	7%	3%	-	35,000	20,000	10	65	70
	C93400	-	84%	8%	8%	-	-	34,000	20,000	8	60	70
	C93500	66	85%	5%	9%	1%	-	30,000	16,000	12	60	70
	C93600	-	80%	7%	12%	1%	-	32,000	16,000	15	60	80
	C93700	64	80%	10%	10%	-	-	35,000	20,000	6	60	80

Tin Bronze High Loads / Low Speeds (most corrosive environments)	CDA	SAE	Cu	Sn	Pb	Zn	Ni	Tensile (PSI)	Yield (PSI)	Elongation %	BHN @ 500kg	Free Cutting Brass = 100
	C90300	620	88%	8%	-	4%	-	44,000	22,000	18	70	30
	C90500	62	88%	10%	-	2%	-	44,000	25,000	10	75	30
	C90700	65	89%	11%	-	-	-	40,000	25,000	10	80	20
	C92200	622	88%	6%	1.5%	4.5%	-	38,000	19,000	18	65	42
	C92300	621	87%	8%	1%	4%	-	40,000	19,000	16	70	42
	C92500	640	87%	11%	1%	2%	1%	40,000	24,000	10	80	30
	C92700	63	88%	10%	2%	-	-	38,000	20,000	8	77	45

Manganese Bronze Extreme Loads / Low Speeds	CDA	SAE	Cu	Zn	Al	Fe	Mn	Tensile (PSI)	Yield (PSI)	Elongation %	BHN @ 3,000kg	Free Cutting Brass = 100
	C86200	430A	64%	26%	4%	3%	3%	90,000	45,000	18	180	30
	C86300	430B	63%	25%	6%	3%	3%	110,000	62,000	14	225	8
	C86500	43	58%	39.5%	1%	1%	-	70,000	25,000	25	130	26

Aluminum Bronze Extreme Loads / Low Speeds (most corrosive environments)	CDA	SAE	Cu	Al	Fe	Ni	Mn	Tensile (PSI)	Yield (PSI)	Elongation %	BHN @ 3,000kg	Free Cutting Brass = 100
	C95200	68A	88%	9%	3%	-	-	68,000	26,000	20	125	50
	C95300	68B	89%	10%	1%	-	-	70,000	26,000	25	140	55
	C95300-HT	-	-	Heat Treated				80,000	40,000	12	174	50
	C95400	-	85%	11%	4%	-	-	85,000	32,000	12	170	60
	C95400-HT	-	-	Heat Treated				95,000	45,000	10	195	50
	C95500	-	81%	11%	4%	4%	-	95,000	42,000	10	195	50
	C95500-HT	-	-	Heat Treated				110,000	62,000	8	230	40
	C95900	-	82%	13%	4%	-	1%	N/A	N/A	N/A	N/A	25



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Alloy Cross Reference Chart

SMI-PRO-ACRC01. Revision 3. March 2017.

Family	CDA	ASTM		SAE		AMS	Ingot	Federal		Military		Other
Manganese Bronze	C86200	B505	8B	430A	J461, J462	-	423	QQ-C-390 (C4)	QQ-B-726 Class B	-	C-2229 Gr9	High Strength Yellow Brass 90,000
	C86300	B505	8C	430B	J461, J462	-	424	QQ-C-390 (C7)	-	-	C-2229 Gr8	High Strength Yellow Brass 110,000
	C86500	B505	8A	43	J461, J462	4860	421	QQ-C-390 (C3)	QQ-B-726 Class A	-	C-2229 Gr7	High Strength Yellow Brass 65,000
Tin Bronze	C90300	B505	1B	620	J461, J462	-	225	QQ-C-390 (D5)	QQ-B-1005 Comp.3	B-11553 Comp.5	C-2229 Gr1	"G" Bronze
	C90500	B505	1A	62	J461, J462	4845	210	QQ-C-390 (D6)	QQ-B-1005 Comp.16	B-11553 Comp. 16	-	Gun Metal Bronze
	C90700	B505	-	65	J461, J462	-	205	-	-	-	-	High Tin Bronze
	C92200	B505	2A	622	-	-	245	-	-	-	-	-
	C92300	B505	2B	621	-	-	230	-	-	-	-	-
	C92500	B505	-	640	-	-	250	-	-	-	-	-
	C92700	B505	-	63	-	-	206	-	-	-	-	-
High Leaded Tin Bronze	C93200	B505	3B	660	J461, J462	-	315	QQ-C-390 (E7)	QQ-B-1005 Comp.12	-	C-15345 Gr12	Bearing Bronze
	C93400	B505	-	-	-	-	310	QQ-C-390 (E8)	QQ-B-1005 Comp.8	B-11553 Comp.8	C-22229 Gr3	-
	C93500	B505	3C	66	J461, J462	-	326	QQ-C-390 (E9)	QQ-B-1005 Comp.14	B-11553 Comp.14	-	-
	C93600	B505	-	-	-	-	-	-	-	-	-	-
	C93700	B505	3A	64	J461, J462	-	305	QQ-C-390 (E10)	-	B-11553 Comp.23	-	-
	C93800	B505	3D	67	-	-	319	QQ-C-390 (E6)	QQ-B-1005 Comp.19	B-11553 Comp.19	-	-
	C94100	B505	-	-	-	-	325	QQ-C-390 (E5)	-	B-16261 Grade X	-	-
Aluminum Bronze	C94300	B505	3E	-	-	-	322	QQ-C-390 (E1)	QQ-B-1005 Comp.18	B-16261 Grade V	-	-
	C95200	B505	9A	68A	J461, J462	-	415A	QQ-C-390 (G6)	QQ-B-671 Class 1	B-16033 Class 1	-	Aluminum Bronze "9A"
	C95300	B505	9B	68B	J461, J462	-	415B	QQ-C-390 (G7)	QQ-B-671 Class 2	B-16033 Class 2	-	Aluminum Bronze "9B"
	C95300-HT	B505	9B-HT	-	-	-	-	-	-	-	-	-
	C95400	B505	9C	-	J461, J462	-	415C	QQ-C-390 (G5)	QQ-B-671 Class 3	B-16033 Class 3	C-15345 Gr13	954SP™ ¹ , Aluminum Bronze "9C"
	C95400-HT	B505	9C-HT	-	-	-	-	-	-	-	-	-
	C95500	B505	9D	-	J461, J462	-	415D	QQ-C-390 (G3)	-	B-16033 Class 4	C-22229 Gr8	955SP™ ² , Aluminum Bronze "9D"
	C95500-HT	B505	9D-HT	-	-	-	-	-	-	-	-	-
	C95520	B505	-	-	-	-	-	-	-	-	-	-
Aluminum Bronze	C95900	B505	-	-	-	-	-	-	-	-	-	959SP™ ³
	Alloy 52SP™ ⁴	B505	-	-	-	-	-	-	-	-	-	Alloy 52SP™ ⁴
Sintered Bronze	-	B438	Gr1, Type 2	841	-	-	-	-	-	B-5687D Type 1, Gr1	-	Oil-Impregnated, Self-Lubricating
Free-Cutting Brass	C36000	-	-	-	-	4610	-	-	-	-	-	-
Naval Bronze	C46400	B124	-	-	-	-	-	-	-	-	-	-
Leaded Red Brass	C83600	B505	4A	40	J461, J462	4855	115	QQ-C-390 (B5)	QQ-B-1005 Comp.2	QQ-C-390 (B5)	C-22229 Gr12	Composition Bronze
Leaded Semi Red Brass	C84400	B505	5A	-	-	-	123	QQ-C-390 (B2)	QQ-B-1005 Comp.11	QQ-C-390 (B2)	-	-
High Copper Alloy	Alloy 49WS™ ⁵	-	-	-	-	-	-	-	-	-	-	Alloy 49WS™ ⁵

1 - 954SP™: Spectrum Premium "Alloy 954SP" is our high-quality version of aluminum bronze C954 recommended for more demanding users and applications.

2 - 955SP™: Spectrum Premium "Alloy 955SP" in our high-quality version of nickel-aluminum bronze C955.

3 - 959SP™: Spectrum Premium "Alloy 959SP" is our high-quality version of aluminum-bronze C959.

4 - Alloy 52SP™: Proprietary alloy for deep drawing, roll forming, and bending. Produced exclusively by Spectrum Machine. Alloy 52SP does not carry a CDA alloy designation.

5 - Alloy 49WS™: Proprietary alloy for low-cost, high-performance weld spatter resistance. Produced exclusively by Spectrum Machine. Alloy 49WS does not carry a CDA alloy designation.



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COMPANY INFORMATION

Company Name..... Spectrum Machine, Inc.

Year Established..... 1987.

Ownership.....Privately held.

**Executives..... Kevin Lamb, President.
Tim Lamb, Vice President.
Todd Lamb, Vice President.**

**Plant 1.....Office, Machining, Distribution
1668 Frost Rd
Streetsboro. OH 44241 USA**

**Plant 2.....Foundry
7071 Peck Rd
Ravenna, OH 44266 USA**

**Products & Services.. Cast Bronze Bar Stock
C954, C959, C932, C863, etc.
Machined Parts
Wear Plates, Gibs, Bushings, etc.**

Foundry Information

16+” diameter vertical casters.... 2

8+” diameter horizontal caster.... 1

- 300,000-lbs/month production capacity
- In-house precision die shop
- 30,000 sq. ft. facility

Machine Shop Information

CNC Lathe (2- & 4-Axis)..... 5

CNC Mill..... 6

CNC Saw..... 4

Vertical Saw..... 1

Horizontal Saw..... 1

Vertical Manual Mill..... 5

Manual Lathe..... 7

- 1,000,000-lbs+ of bronze inventory
- Milling to 80” maximum length
- Sawing to 22” maximum OD
- Turning to 18”-20” maximum OD
- 30,000 sq. ft. facility



Casting Facility



Machining Facility



spectrum
MACHINE, INC.

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